

Recombinant human NDUFS2, His-tagged

Cat. No. NDUFS2-2463H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NDUFS2 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
Description	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial isoform 1 precursor, also known as NDUFS2, is a 463 amino acid protein that is suggested to be required for catalytic activity. Defects in NDUFS2 are the cause of complex I mitochondrial respiratory chain deficiency, which is characterized by a variety of symptoms including liver failure, cardiomyopathy and neurodegeneration. Located in the mitochondrial inner membrane, mitochondrial complex I is the first and largest enzyme in the electron transport chain of oxidative phosphorylation.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	46.5kDa (410aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSVKNITLN FGPQHAAHG VLRLVMELSG EMVRKCDPHI GLLHRGTEKL IEYKTYLQAL PYFDRLDYVSMCNEQAYSL AVEKLLNIRP PPRAQWIRVL FGEITRLLNH IMAVTTHALD LGAMTPFFWL FEEREKMFEE YERVSGARMH AAYIRPGGVH QDLPLGLMDD IYQFSKNFSL RLDELEELLT NNRIWRNRTI DIGVVTAEEA LNYGFSGVML RGSGIQWDLR KTQPYDVYDQ VEFDVPVGSRGDCYDRYLCR VEEMRQSLRI IAQCLNKMPP

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GEIKVDDAKV SPPKRAEMKT SMESLIHHFK LYTEGYQVPP GATYTAIEAP
KGEFGVYLVS DGSSRPYRCK IKAPGFAHLA GLDKMSKGHM LADVVAIIGT
QDIVFGEVDR

Purity >80% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name **NDUFS2 NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase) [Homo sapiens]**

Official Symbol NDUFS2

Synonyms NDUFS2; NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase); NADH dehydrogenase (ubiquinone) Fe S protein 2 (49kD) (NADH coenzyme Q reductase); NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial; CI 49; complex I 49kDa subunit; NADH dehydrogenase [ubiquinone] iron sulfur protein 2; mitochondrial; CI-49kD; complex I-49kD; NADH-ubiquinone oxidoreductase 49 kDa subunit; NADH-ubiquinone oxidoreductase NDUFS2 subunit; complex 1, mitochondrial respiratory chain, 49-KD subunit; CI-49;

Gene ID **4720**

mRNA Refseq **NM_001166159**

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Protein Refseq	NP_001159631
MIM	602985
UniProt ID	O75306
Chromosome Location	1q23.3
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Electron Transport Chain, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	4 iron, 4 sulfur cluster binding; NAD binding; NADH dehydrogenase (ubiquinone) activity; contributes_to NADH dehydrogenase activity; electron carrier activity; metal ion binding; protein binding; quinone binding;

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